

# INTERNATIONAL SEARCH REPORT

national Application No  
PCT/JP2004/016792

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 H01L29/739 H01L29/78 H01L29/423

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 1998, no. 02, 30 January 1998 (1998-01-30) -& JP 09 260650 A (FUJI ELECTRIC CO LTD), 3 October 1997 (1997-10-03) abstract; figures 2,4	1-4,7
A	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 05, 14 September 2000 (2000-09-14) & JP 2000 058823 A (TOSHIBA CORP), 25 February 2000 (2000-02-25) abstract	1-7
A	US 6 060 747 A (OKUMURA ET AL) 9 May 2000 (2000-05-09) the whole document	1-7

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \* & \* document member of the same patent family

Date of the actual completion of the international search

21 February 2005

Date of mailing of the international search report

01/03/2005

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>PATENT ABSTRACTS OF JAPAN vol. 1997, no. 03, 31 March 1997 (1997-03-31) &amp; JP 08 316479 A (MITSUBISHI ELECTRIC CORP), 29 November 1996 (1996-11-29) cited in the application abstract</p> <p>-----</p>	1-7

# INTERNATIONAL SEARCH REPORT

information on patent family members

International Application No  
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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 09260650	A	03-10-1997	NONE	
JP 2000058823	A	25-02-2000	NONE	
US 6060747	A	09-05-2000	JP 3329707 B2 JP 11111976 A US 6354825 B1	30-09-2002 23-04-1999 12-03-2002
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